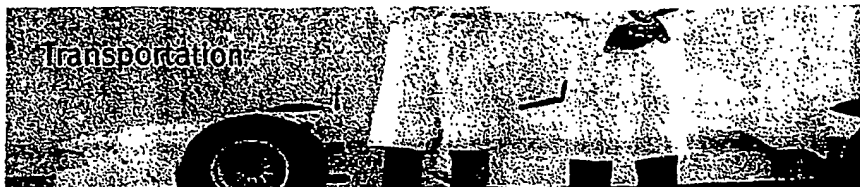


Select Industry

- Select -



[DuPont Home](#) « [Transportation](#) « [Automotive](#) « [Products & Services](#) « [Ethylene Copolymers and Olefins](#)

Automotive

Bexloy® W automotive resins

Bexloy® W automotive resins are a high-toughness, abrasion-resistant material choice that's well suited to applications such as step pads and bedliners on trucks, guide loops and D-rings in restraint systems, and a variety of other parts requiring improvement versus lower-performing polyolefin-type materials. Compared with polyethylene resins, for example, DuPont™ Bexloy® W resins are more resistant to UV damage as well as cold-weather impact failures.

The resins are particularly tenacious against abrasion, easily pigmented, and can be surface textured during molding to deliver long-lasting appearance qualities. Part manufacturing is accomplished using conventional fast-cycle injection molding equipment.

Product Specifications Data

[Click here for technical product information for Bexloy® W automotive resins](#)

Material Safety Data Sheets

[Click here to search DuPont's MSDS database](#)

[Please click here if you would like to contact DuPont regarding this product.](#)

[FAQ](#) | [Supplier Center](#) | [Site Map](#) | [Legal Notices & Terms of Use](#) | [PRIVACY](#)

Do you have an upgrade or comment about this page? Please contact Corporate Information Center.

Copyright © 2005 DuPont. All rights reserved. The DuPont Oval Logo, DuPont™, The miracles of science™ and all products denoted with ® or ™ are registered trademarks or trademarks of E. I. du Pont de Nemours and Company or its affiliates.



Product Information

Bexloy[®] W

automotive molding resin

Now Available for Non-automotive Applications

Properties of Bexloy[®] W

Property	ASTM	Units	Temperature	Value
Flexural Modulus (tangent)	D790	MPa kpsi	23°C 73°F	655-758 95-110
Specific Gravity	D792		23°C/73°F	0.96-0.97
Tensile Strength	D638	MPa psi	23°C 73°F	19-22 2800-3200
Elongation at Break	D638	%	23°C/73°F	>400
Heat Sag (152mm [6"] Overhang, 30 min)	D3769	mm inches	82°C 180°F	13 0.5
Tear Resistance (Die C) (508mm [20"]/minute)	D264	kN/m lb/in	23°C 73°F	149-170 850-970
Notched Izod Impact	D256	J/m ft.lb/in	-30°C -22°F	854 16
Gardner Impact	D3029	J in.lb	-30°C -22°F	>36 >320
Rheometric Impact (ultimate energy) (8 kph, 12.5mm dia. tup, 75mm dia. ring) (5mph, 1/2" dia. tup, 3" dia. ring)		J in.lb J in.lb	23°C 73°F -30°C -22°F	22 194 18 159
Shrinkage	D955	%		0.75-1.2
Coefficient of Linear Thermal Expansion	E831	µm/m,° C in/in, °F	-30° to 80°C -22F 176°F	76-90 (4.2-5.0) x 10 ⁻⁵

Bexloy[®] W is a thermoplastic alloy based on *Surlyn*[®] ionomer technology. Commercial grades contain from zero to three percent glass and come in two colors - natural and black. Approved color concentrates are available from selected color houses.

Bexloy[®] W is available in a variety of grades. The properties above represent the range

of properties for most grades. Where only one number is listed, all grades are represented by that value.

Bexloy® W modified ionomer resins were first engineered for injection molded exterior automotive applications such as molded-in-color fascia, bumper covers, side moldings and other decorative trim.

Bexloy® W has been used on the Dodge and Plymouth Neon since 1994 because of its exceptional match to painted finish, superior scratch and mar resistance, low temperature impact resistance, recyclability and low cost versus painted fascia. In recognition of the breakthrough in producing fascia that achieved a 250% improved gloss measurement and body color match, Chrysler won the Society of Plastic Engineers "Most Innovative Use of Automotive Plastics" award for 1995 model body exterior applications.

DuPont now offers *Bexloy® W* for other markets. Features and benefits include:

- Molded-in color
- High gloss finish
- Color matching
- Weatherability
- Low temperature toughness
- Abrasion resistance
- Stain resistance
- Wear resistance

With better physical properties than TPO, *Bexloy® W* may help you improve the appearance and quality of your application while lowering your total cost.



© 1997 DuPont Company.
All rights reserved.



We welcome and respond promptly to e-mail.

The technical data contained herein are guides to the use of DuPont resins. The advice contained herein is based upon tests and information believed to be reliable, but users should not rely upon it absolutely for specific applications because performance properties will vary with processing conditions. It is given and accepted at user's risk and confirmation of its validity and suitability in particular cases should be obtained independently. The DuPont Company makes no guarantees of results and assumes no obligations or liability in connection with its advice. This publication is not to be taken as a license to operate under, or recommendation to infringe, any patents.

CAUTION: Do not use in medical applications involving permanent implantation in the human body. For other medical applications, see "DuPont Medical Caution Statement", H-50102.